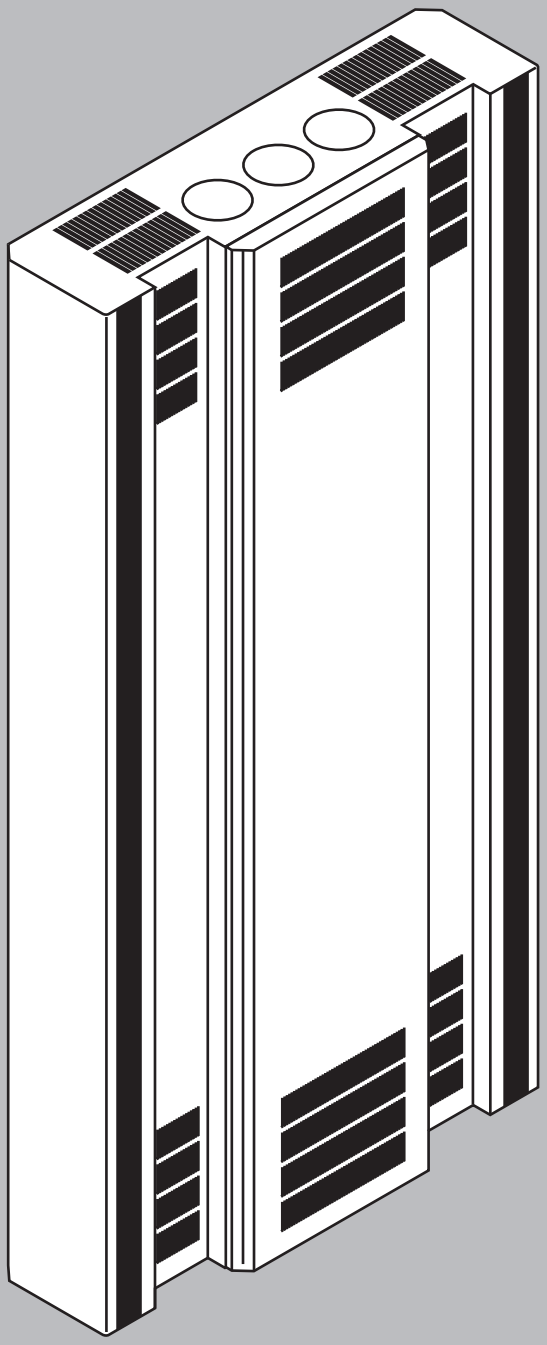
ILUMIN
INTELLIGENT CONTROLS

SC-RP/SC-RPB

Switched Relay Controllers



Programming Guide & User Manual

COOPER Controls

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Important Information

- Do not discard this programming guide. Please keep for future reference.
- Please read and follow all warnings given in this guide.
- Always disconnect all power before wiring.
- Use only as intended and at the listed voltage.
- All installation service must be performed by qualified personnel or service technicians.
- Install in accordance with National Electrical Code (NEC) and any other codes that may apply.
- High Voltage is present inside the enclosure. Use extreme caution when performing maintenance on this equipment. Failure to follow this warning and proper safety procedures could result in severe injury or death and/or damage to the equipment.
- Document all wiring that is terminated at the SCRP Switched Relay Controller so that the system can be properly configured and programmed for operation.

Introduction

Welcome

The iLumin Switched Relay Controller from Cooper Controls has been designed to provide flexibility in both installation and operation. Each model in the product family can accept a variety of industry standard control options including iCANbus, DMX, Ethernet, and RS485. Similarly, every model can drive a wide range of lighting loads, from incandescents to dimmable fluorescents, from non-dim apparatus to DALI (Canada and Mexico only) digital modules.

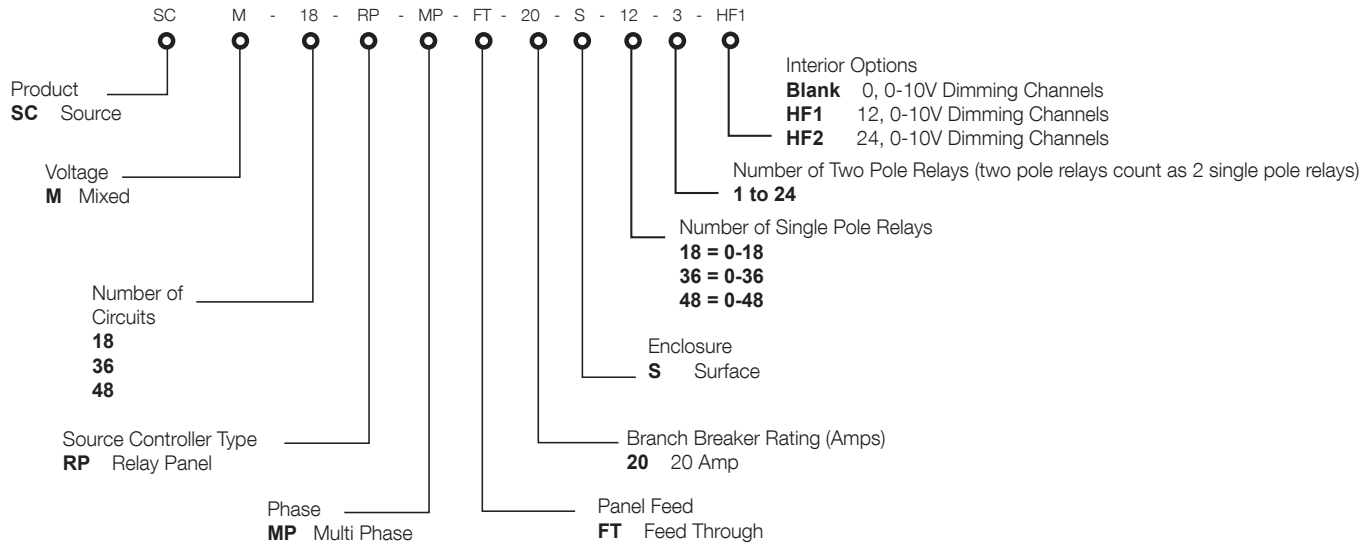
All Switched Relay Controller models feature a fold-out control panel which provides access to an intuitive configuration menu to allow quick and flexible configuration.

This guide provides full information about programming the Switched Relay Controller using the control panel. For details about mounting and connecting iLumin Switched Relay Controller products, please refer to the accompanying Installation Guide 9850-000016 (9850-000017) for the SCRPB.

Product Overview

Each model is specified using a part number in the following format:

For SC-RP (Relay Panels)



Ordering Examples:

1. SC-M-18-RP-MP-FT-20-S-12-3-HF2
   18 circuit surface mount feed through panel with 12 single pole relays, 3 two pole relays, 24 0-10V dimming channels
2. SC-M-36-RP-MP-FT-20-S-18-0-0
   36 circuit surface mount feed through panel with 36 single pole relays, no two pole relays, no 0-10V dimming channels

See page 12 for the list of commissioning steps

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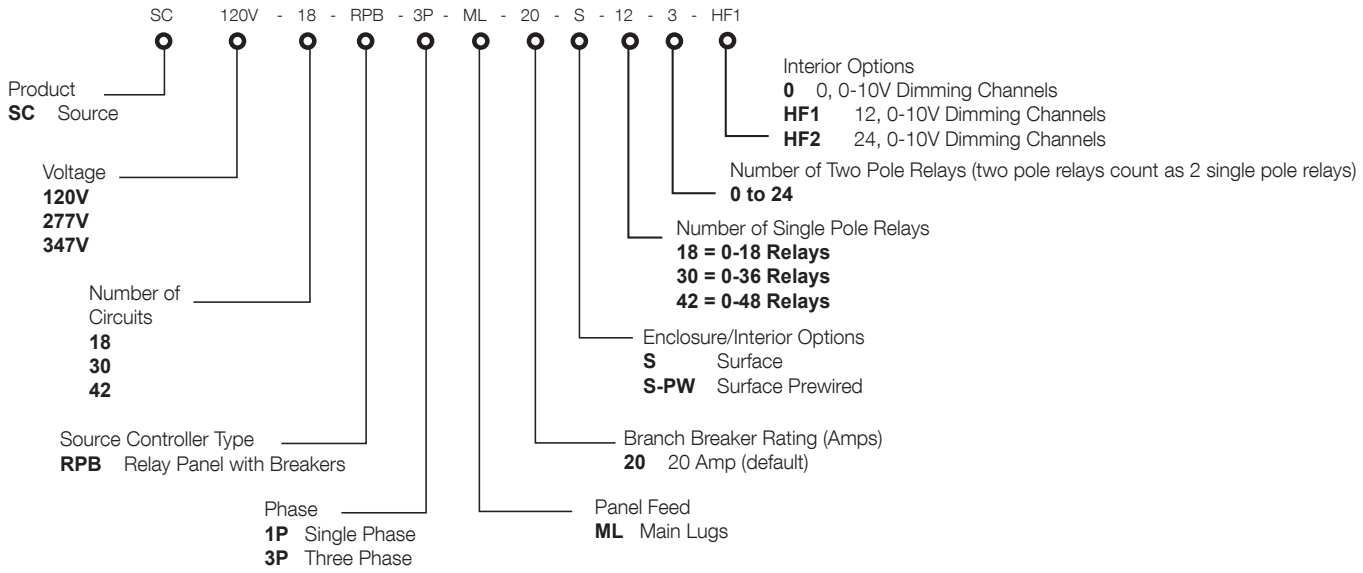
For SC-RPB (Relay Panels with Circuit Breakers)



	Catalog#	Discription
18 Relay	SC120V-18-RPB-1P-ML-20-S-18-0-0	Switched Relay Controller with 18 - 20A 120V Breakers, 1P - 250A Main Lugs and 18 Latching Relays
	SC120V-18-RPB-3P-ML-20-S-18-0-0	Switched Relay Controller with 18 - 20A 120V Breakers, 1P - 250A Main Lugs and 18 Latching Relays
	SC277V-18-RPB-1P-ML-20-S-18-0-0	Switched Relay Controller with 18 - 20A 277V Breakers, 1P - 250A Main Lugs and 18 Latching Relays
	SC277V-18-RPB-3P-ML-20-S-18-0-0	Switched Relay Controller with 18 - 20A 277V Breakers, 1P - 250A Main Lugs and 18 Latching Relays
	SC347V-18-RPB-3P-ML-20-S-18-0-0	Switched Relay Controller with 18 - 20A 347V Breakers, 1P - 400A Main Lugs and 18 Latching Relays

	Catalog#	Discription
36 Relay	SC120V-30-RPB-3P-ML-20-S-36-0-0	Switched Relay Controller with 30 - 20A 120V Breakers, 3P - 250A Main Lugs and 36 Latching Relays
	SC277V-30-RPB-3P-ML-20-S-36-0-0	Switched Relay Controller with 30 - 20A 277V Breakers, 3P - 250A Main Lugs and 36 Latching Relays
	SC347V-30-RPB-3P-ML-20-S-36-0-0	Switched Relay Controller with 30 - 20A 347V Breakers, 3P - 400A Main Lugs and 36 Latching Relays

	Catalog#	Discription
48 Relay	SC120V-42-RPB-3P-ML-20-S-48-0-0	Switched Relay Controller with 42 - 20A 120V Breakers, 3P - 400A Main Lugs and 48 Latching Relays
	SC277V-42-RPB-3P-ML-20-S-48-0-0	Switched Relay Controller with 42 - 20A 277V Breakers, 3P - 400A Main Lugs and 48 Latching Relays
	SC347V-42-RPB-3P-ML-20-S-48-0-0	Switched Relay Controller with 42 - 20A 347V Breakers, 3P - 400A Main Lugs and 48 Latching Relays

See page 12 for the list of commissioning steps

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Terminology Used in this Guide

This guide uses standard terminology to describe the various aspects of equipment and operation. This brief section provides an overview of certain terms.

Switched Relay Controller

A cabinet containing power dimming and/or switching circuitry to which lighting (or other) loads are directly connected.

Control Panel

A compact fold out console which is contained within the front panel door of the SC-RP and SC-RPB Switch Relay Controller. The control panel has an LCD screen and a keypad, and permits many configuration settings to be made to the Switched Relay Controller.

Output

An Output is physical circuit where electrical loads are connected and controlled. Switched Relay Controllers can have between zero and forty eight separate Outputs, depending on the model.

All SC-RP and SC-RPB Outputs can be configured to switch high voltage loads and can also provide low voltage dimming control signals where required with addition of the optional HF card accessory.

Each Output within the Switched Relay Controller has a physical number which cannot be altered.

Zone

A Zone is a virtual representation of one or more Outputs. For instance, a room might contain three lights, each of which is connected to a separate Output on the Switched Relay Controller. If all three lights need to be switched On or dimmed in the same way, then it makes sense to represent them all as a single Zone.

The Outputs represented by a Zone do not need to be within the same Switched Relay Controller, they could be spread across any number of different Controllers.

Once the Outputs are represented by a Zone, the physical number related to each Output is only of relevance within the Switched Relay Controller that contains it. To all other devices, the Zone is the only item of interest.

Scene

A Scene is a collection of settings for any number of Zones. They are the equivalent of **cues** in theatrical lighting.

For example, a hotel restaurant has breakfast, lunch and evening sittings. There are four Zones: Ceiling spots, wall washers, chandeliers and table lights. The manager wants to create a different mood for each sitting. Rather than adjusting each of the four Zones individually every time, you can collect different On/Off or dimming levels for the channels into three separate Scenes (one for each sitting) and apply each to a different button on the wallstation.

Changing between the sittings becomes simple and consistent thanks to easy Scene selection.

Area

An Area is a collection of one or more Zones that might have related operations. The most common example for an Area would be a single room. Imagine a restaurant with three zones: main ceiling lighting, worktop task lights and a pendant lamp over the table. The room has two wallstations. By grouping the three Zones into a single Area, it becomes straightforward to allow each wallstation to adjust any of the Zones within the room.

Contact Closure Input

Each Switched Relay Controller has two volt-free contacts which can be used to accept inputs from external devices like fire, intruder alarms or Emergency Transfer so that lighting can be automatically taken to a predetermined level to assist with visibility.

Source Type

There are many different technologies that are used in today's buildings to create light. Incandescent, Fluorescent (low voltage dimmable and non-dimmable) are examples of source types.

Wallstation

A wall mounted User Interface with either physical-buttons or a touchscreen that allows occupants of a room to adjust lighting levels or controlling other devices like A/V equipment or shades.

Device

Any iLumin equipment. For example, an Ineo is a Device. A Switched Relay Controller is also a Device.

Node

Any iLumin Device connected to the iCAN network. For example, Switched Relay Controllers, Ineo's and Revio's connected to the iCAN network are Nodes.

Segment

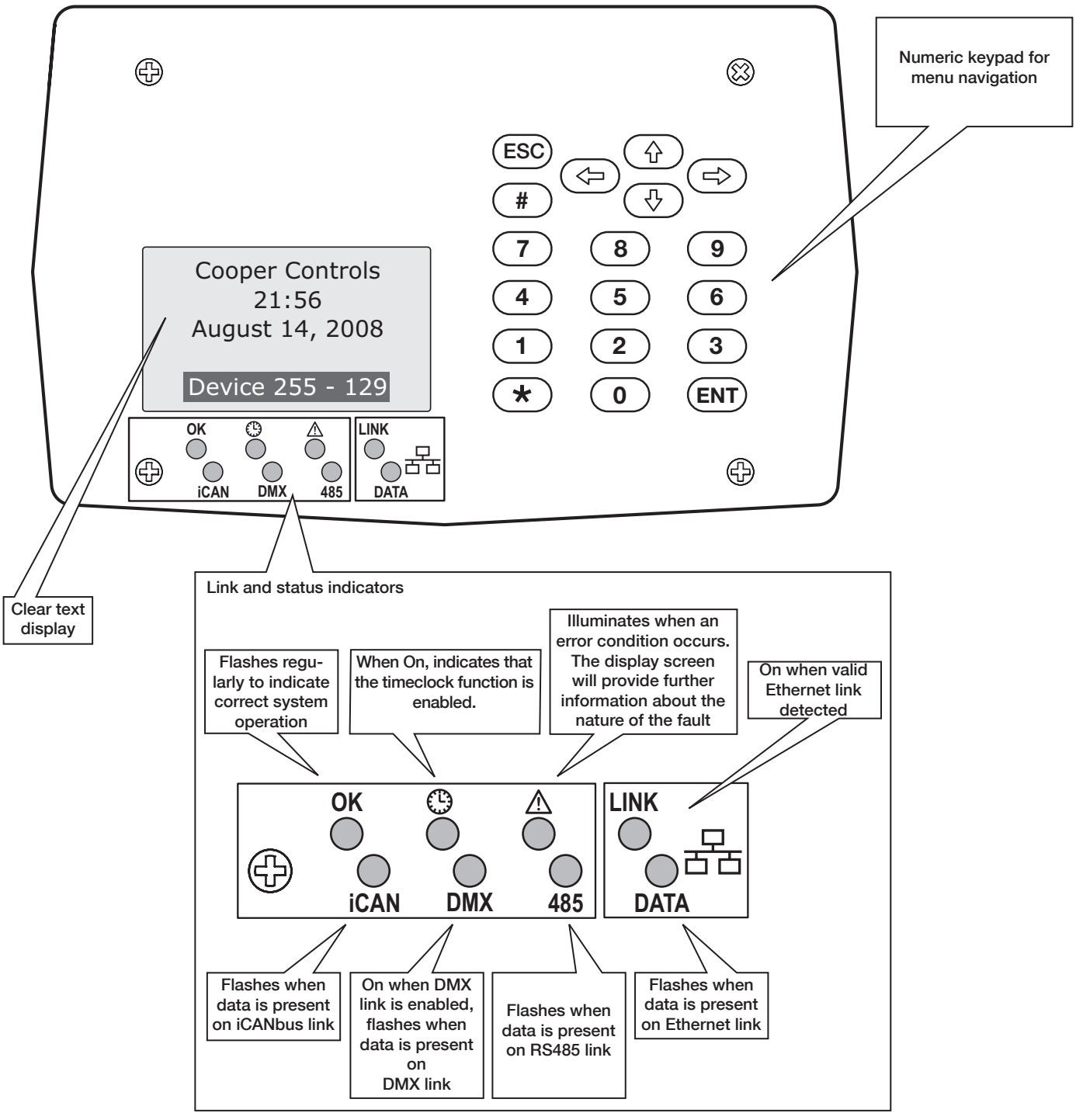
Devices connected together on the iCAN network in a daisy chain. Each Segment is terminated with 120-ohm resistors at both ends of the daisy chain. A Segment can contain up to 100 Nodes.

See page 12 for the list of commissioning steps

Basic Control Panel Operation

Using the Control Panel

Each Switched Relay Controller provides a control panel to make programming and operation as straightforward as possible. To access the control panel, open the main panel door on the front of the unit.



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Accessing the operation menu

During normal service of the Switched Relay Controller, the control panel screen shows only the time, date and device number.

To access the operation menu

1. Press the button to display the Select Access Level menu.
2. With the 'Operation' option highlighted, press the button.
3. If requested, enter the four digit operation password and press the button. *Note: When the unit is supplied, there is initially no password - see the section 'Changing the operation menu password' to set one.*
4. If the password is accepted, the main Operation menu will be displayed.

Menu Navigation

Within the control panel menu system, use the following buttons to navigate:

⇦ ⇨ ⇩ ⇧ Press to select an item or to save changes.

ENT Press to enter an option or select an item.

ESC Press to escape from an option and return to the previous level.

* The Asterisk will be used on some Scenes to perform special functions.

The menu system is comprised of two main sections:

- **The Operation menu**
  Contains functions for users to operate the system. Functions include: Output override, Timeclock functions, Power data figures, etc.
- **The Configuration menu**
  Provides functions primarily used during initial commissioning and subsequent fine tuning of the installation by engineers.

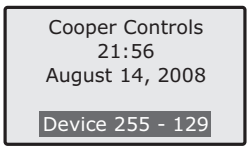
To prevent unauthorized access, use the Password Manager to configure four-digit passwords for the Operation and Configuration menus.

Please see the next pages for more detailed information about the Operation and Configuration menus.

See page 12 for the list of commissioning steps

Accessing the Menus

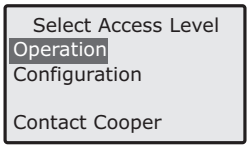
During normal operation, the control panel screen shows only the time, date and device number ⇨



To access the menus

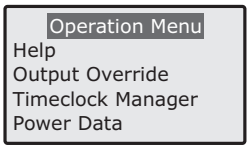
1. Press the ENT button to display the Select Access Level menu ⇨
2. Use the ⇩ or ⇧ buttons to highlight the required menu (Operation or Configuration) and then press the ENT button to select.
3. If requested, enter the four-digit password and press the ENT button.

   Note: When the unit is supplied, there are initially no passwords - see the section 'Configuring passwords'.
4. If the password is accepted, the chosen menu will be displayed.



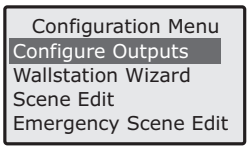
Menu Layouts

Operation menu layout



- **Operation**
  - Help
  - Output Override
    - All Outputs — *see page 23 & 38*
    - Each Output
    - Select Scene
  - Timeclock Manager
    - Time & Date — *see page 30*
    - Events — *see page 32*
    - Coordinates — *see page 30*
    - Daylight Saving — *see page 31*
    - Timestamp Frequency — *see page 31*
    - Enable/Disable — *see page 29*
  - Power Data
    - Total Power — *see page 38*
    - Display by Phase
    - Display by Output
  - Communications
    - iCANnet OFF/ON — *see page 39*
    - Ethernet OFF/ON
    - DMX OFF/ON
    - RS485 OFF/ON
    - Contact Inputs OFF/ON

Configuration menu layout



Configuration
- Configure Outputs
  - Output x
    - Standard Type — *see page 20*
    - Set Area/Zone — *see page 21*
    - HF Curve — *see page 21*
    - Min/Max — *see page 22*
    - Operation at Min — *see page 22*
    - Startup Action — *see page 22*
- Wallstation Wizard — *see page 27*
- Scene Edit
  - Scene x — *see page 24*
- Emergency Scene Edit — *see page 25*
  - All Outputs
  - Output x xx%
- Contact Inputs — *see page 26*
  - Input 1
  - Input 2
- Ethernet Settings — *see page 34*
  - IP Addr
  - IP Mask
  - Gateway
  - MAC
  - Restore Defaults
- DMX Options
  - Output Mapping — *see page 35*
- Password Manager — *see page 36*
- Restore Defaults — *see page 39*

See page 12 for the list of commissioning steps

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Commissioning an Installation

This section presents the required steps for commissioning a new installation or modifying an existing installation.

Commissioning Steps:

STEP	ACTION	PAGE
1:	iCANnet control wiring	13
2:	Power down the Switched Relay Controller, remove door and visually inspect all wiring and components	15
3:	Wire the Switched Relay Controller	16
4:	Replace door on the Switched Relay Controller and power the unit	18
5:	Energize each Output one at a time to determine the location, type and current draw of its load	19
6:	Configure Output behaviors	20
7:	Verify proper control of each Output using the Output Override option	23
8:	Configure Scene Values	24
9:	Edit the Emergency Scene	25
10:	Connect and configure contact inputs	26
11:	Configure wallstations using the Wallstation Wizard	27
12:	Verify each wallstation	29
13:	Enable the timeclock	29
14:	Configure the time, date, coordinates and daylight saving time	30
15:	Configure timeclock events	32
16:	Configure Ethernet	34
17:	Configure DMX	35
18:	Configure passwords	36
19:	Commissioning complete	

Step 1: iCANnet control wiring

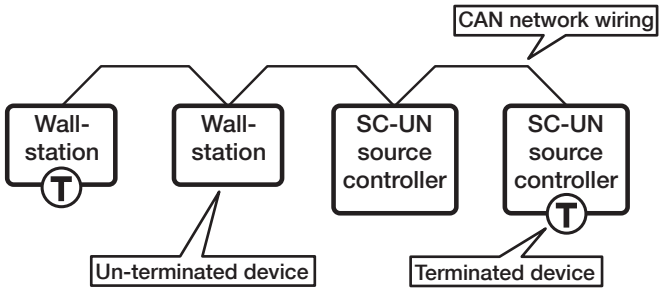
Objective: To identify the layout of the CAN network (also known as **iCANnet**) and connect the SCRP Switched Relay Controller (and other devices) to it. Verify the electrical characteristics of the network and terminate the end devices.

To identify the CAN network wiring layout

1. Use the installation plans to determine the layout of the installed CAN network.
2. Determine where the SCRP Switched Relay Controller(s) are connected in the CAN network. In particular, identify the devices that are located at either end of the CAN network segment - these are the devices that must be terminated.

General CAN network requirements

The CAN network requires devices to be linked together in a daisy-chain arrangement. A single run of daisy-chained devices is called a **Segment**.



There are three main constraints for a CAN network segment:

- The combined cable lengths of the segment may not exceed **3280 feet** (1000 meters)**,** and
- No more than **100 devices** or **nodes** may be connected within a single segment.
- Terminate the devices at each end of the segment with a 120- ohm resistor. Leave the remaining devices on the segment un-terminated.

Where more than 100 devices or excessive overall cable lengths are required, it is necessary to use a Bridge device to link two or more segments together. Contact Cooper Controls for details about bridge devices.

To wire all devices to the CAN network

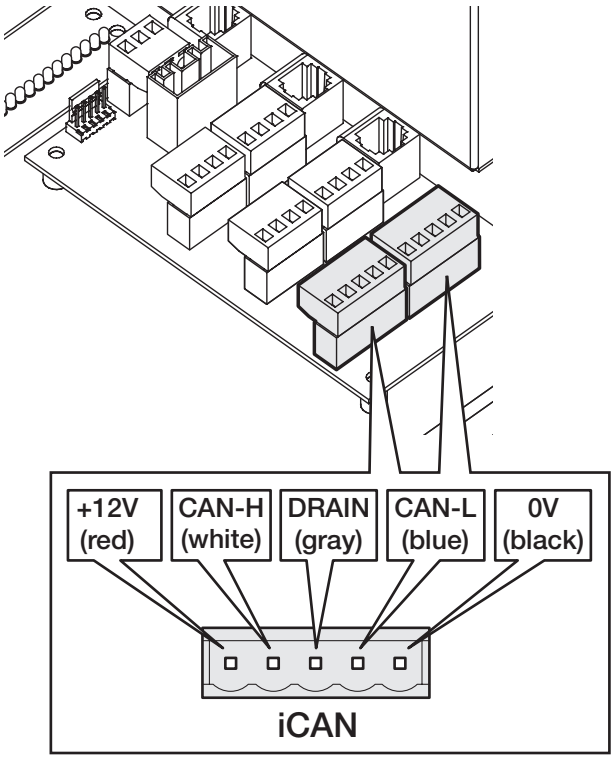
1. Open the main panel door.
2. If not already done, feed the CAN network cable(s) from the top of the panel to the control board area.

   Note: *There should be two CAN network cables unless the SCRP Switched Relay Controller is at the end of the network segment, in which case there will only be one cable.*

IMPORTANT: Keep all low voltage control wiring separate from high voltage power cabling to ensure safety and noise immunity.

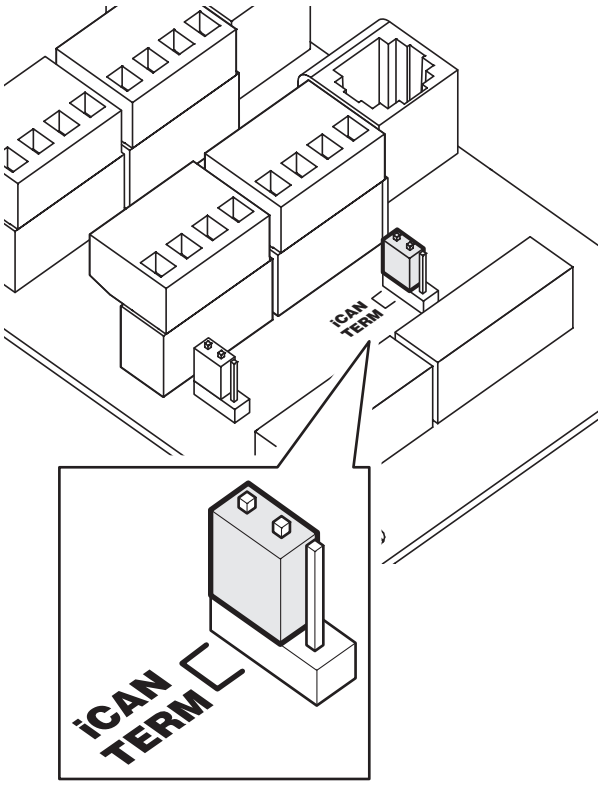
4. Connect the CAN network cable(s) to the iCAN connector(s) on the control board according to the following pin-outs:

5. Connect all other remaining devices to the CAN network according to the installation plans and the specific instructions for each device.



To terminate end devices

1. Locate the iCAN termination jumper on the control board of the SCRP Switched Relay Controller. It is next to one of the two iCAN connectors.



2. Set the jumper according to the position of the SCRP Switched Relay Controller within the CAN network layout:
   - If the SCRP is one of the end devices, set the jumper to the 'iCAN TERM' position.
   - If the SCRP is NOT one of the end devices in the network, set the link to the other end of the jumper block.
3. Check all remaining devices to ensure that only the end devices are terminated.

   Note: *Some devices use jumper links (like the SCRP) for termination control, others require a 120 Ohm resistor to be placed between the CAN-L and CAN-H connections. Check the documentation for each device.*
4. Close the panel door and lock the enclosure.

Step 2: Visually inspect all wiring and components and Power up the SCRP

Objective: To verify proper wiring and mounting.

To ensure the SCRP Switched Relay Controller is powered down

For SC-RP

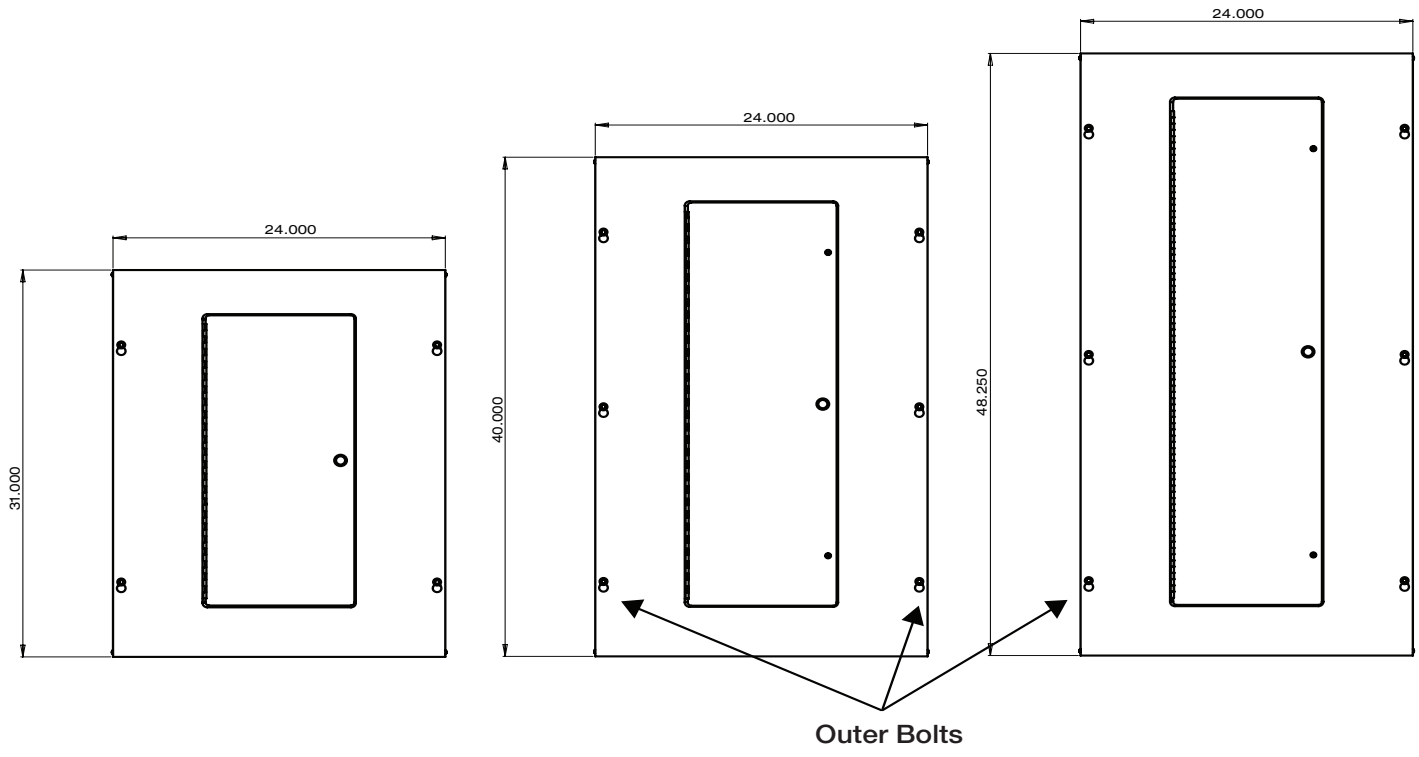
1. Locate the main breaker that feeds the SCRP Switched Relay Controller
2. Turn off the main breaker.

For SC-RPB

1. Locate the breaker that feeds the main power supply.
2. Turn off the power supply breaker.
3. Locate each breaker that feeds the relay cards.
4. Turn off each breaker that feeds the relay cards.

To remove the front panels

1. Remove the outer bolts that hold the panel door in place and carefully lift off the panel door cover.



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Step 3: Power up the Switched Relay Controller

Supply Wiring

Wiring flow

The SCRP Switched Relay Controller range has been designed to provide a clear layout and logical progression for all power circuits.

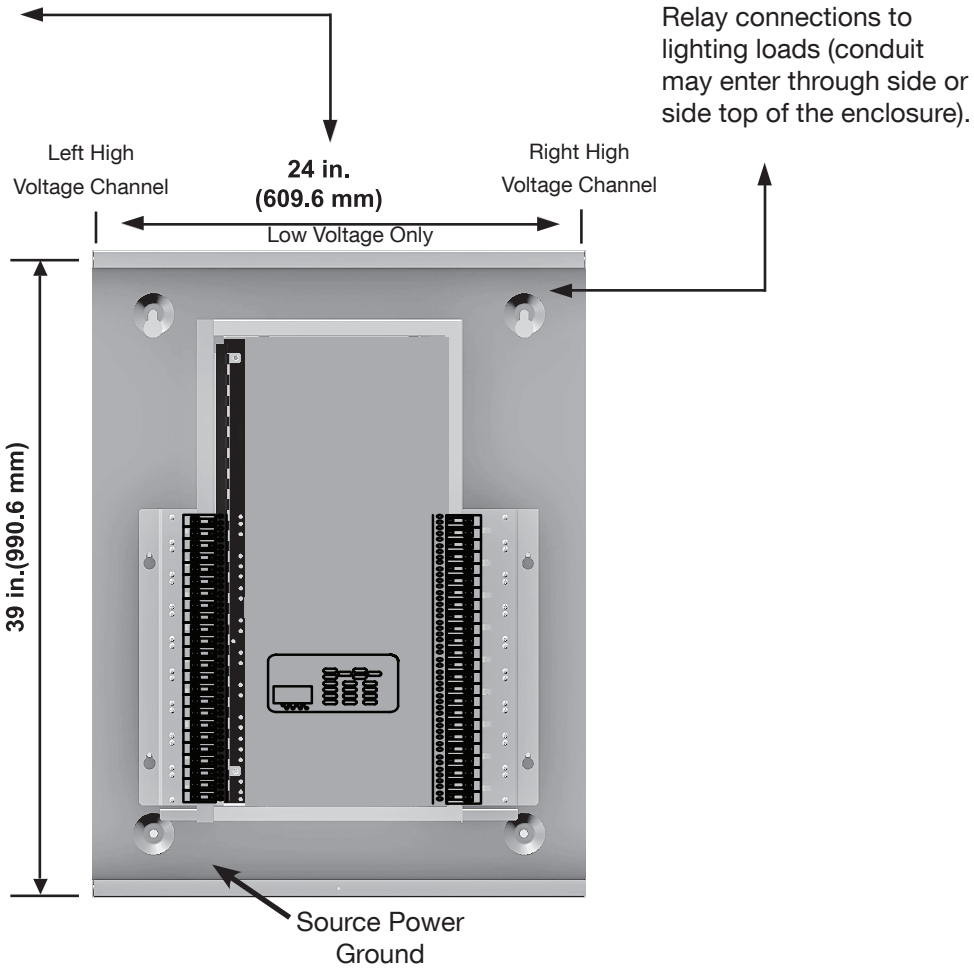
The circuit hot conductors enter at the top panel and connects directly to the “Line” terminal on the relay card lugs.

Two vertical wireways provide clear routes from the circuit card outputs up to the exiting top of the chassis.

The diagram shown below indicates a typical wiring flow with the high voltage load wiring from the various channels (and their earth connections) exiting from the top panel wiring diagram.

Optional Barriers are available to seperate voltages or sources.

Low-voltage connections for ICANnet, DMX512, RS485, Ethernet, Contact Closures, 0-10V Dimming come into the center top section of the enclosure.



Relay connections to lighting loads (conduit may enter through side or side top of the enclosure).

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Load Wiring

High voltage load wiring

Each load channel is served by a dedicated relay card. For each card, load connections are made using a two terminal screw block connector.

Available at the connection block are line and load connections.

Total load per channel

The load on each channel **must not exceed 16A**.

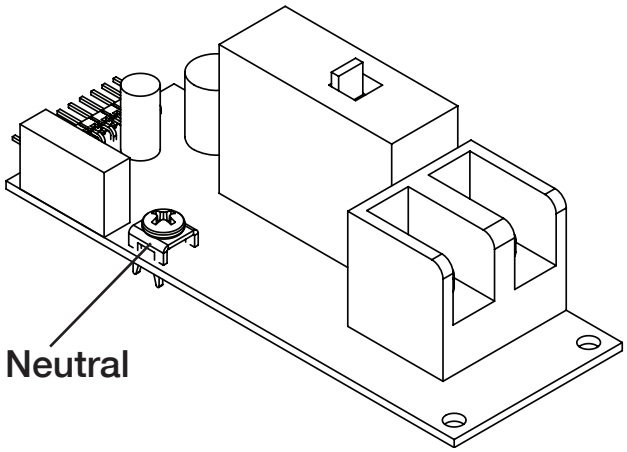
Load wire gauges

Load wiring must be sized according to the nature of the channel load(s) and with strict regard to regulations and codes in force within your locality. The maximum permissible wire gauges accepted by the connector blocks are:

Solid: 8 AWG (6 mm^2)
Stranded 2R wire

Neutral

A separate neutral connection is available on each relay card for voltage reference only. No load current need flow through this conductor allowing it to be much smaller than the line and load conductors.



Step 4: Replace door on the Switched Relay Controller and power the unit

Objective: To make safe the Switch Relay Controller and apply power to it.

To replace the front panels

1. Replace the front panel door and tighten the outer bolts that hold the panel door in place

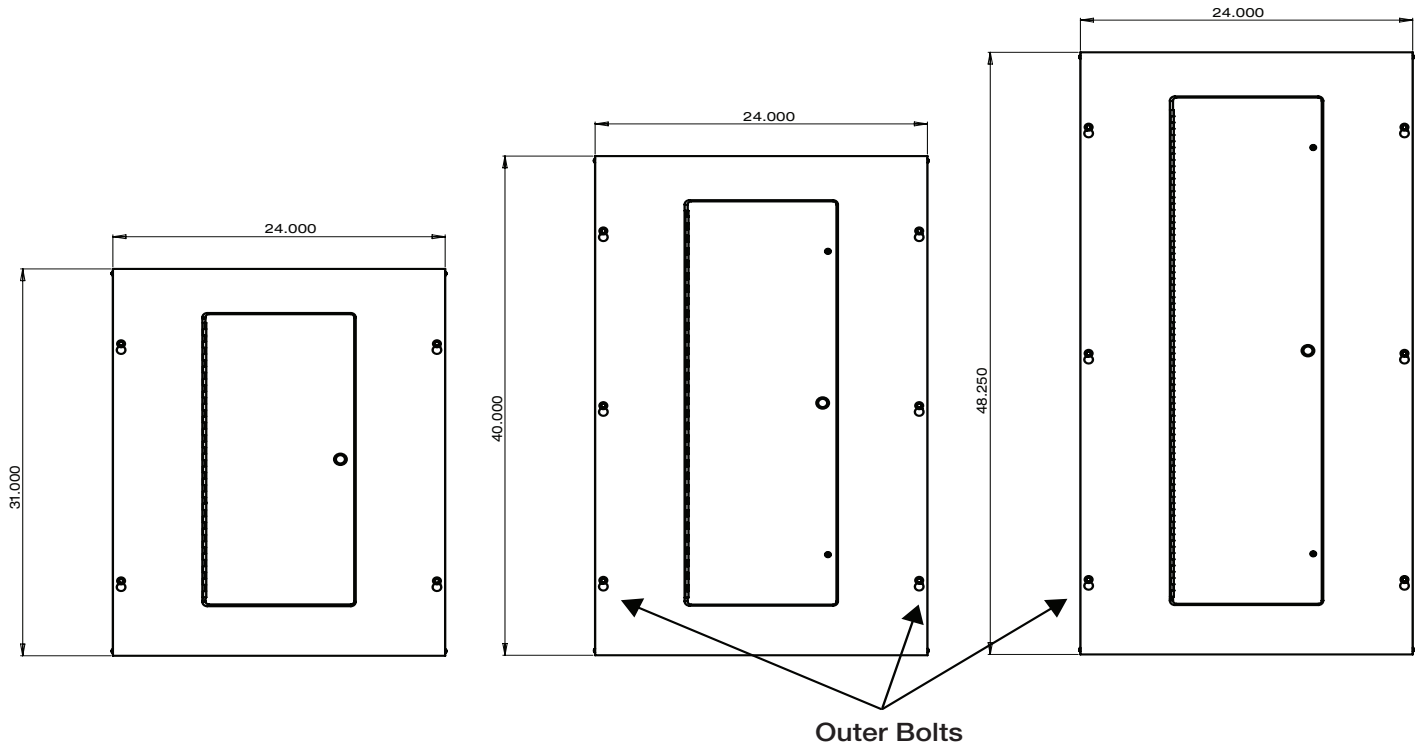
To Power the Switched Relay Controller

For SC-RP

1. Locate the main breaker that feeds the Switched Relay Controller.
2. Turn ON the main breaker.

For SC-RPB

1. Locate the breaker that feeds the main power supply.
2. Turn ON the power supply breaker.



Step 5: Energize each Output one at a time to determine the location, type and current draw of its load.

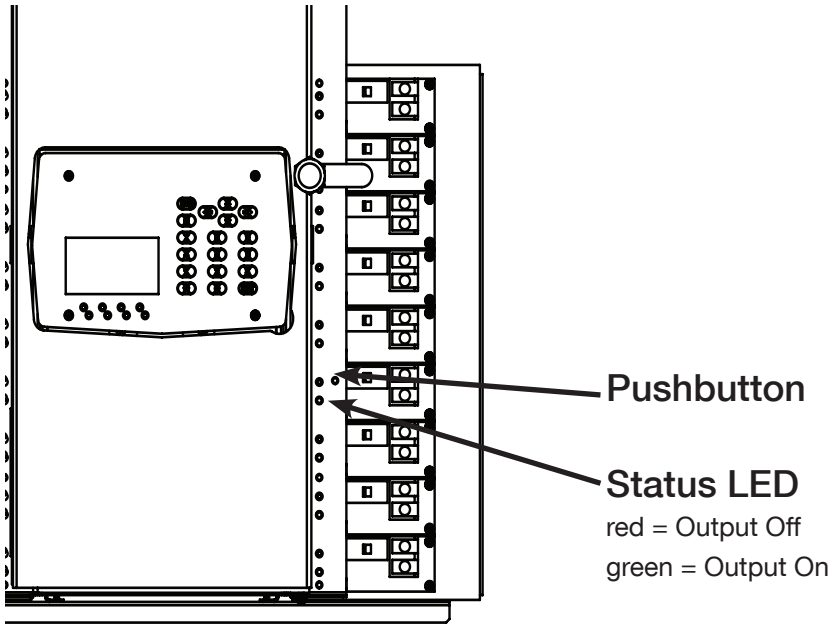
Objective: To confirm the location, type and current of the loads attached to each Output, prior to commissioning.

To apply power to each Output and determine the location and type of the load

WARNING: Before applying power to any Output, check that the associated load wiring and load(s) are in a safe condition and are ready to be energized.

For SC-RPB & SCRP

1. Energize each feeding circuit to supply power to the Outputs.
2. Push the first corresponding relay pushbutton to energize the relay or press and hold the button until the relay clicks to invoke flash to find mode.
3. Using the installation plans as a guide, walk around the installation site and identify controlled luminaires.
4. Log a description of the luminaires against the Output number. Also note the type of luminaires used as this information will be needed when setting the Output behaviors.
5. Press the relay pushbutton to turn off the relay and cancel flash to find mode.
6. Repeat for additonal relays.



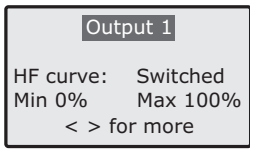
LED off means no relay is installed in that connector.

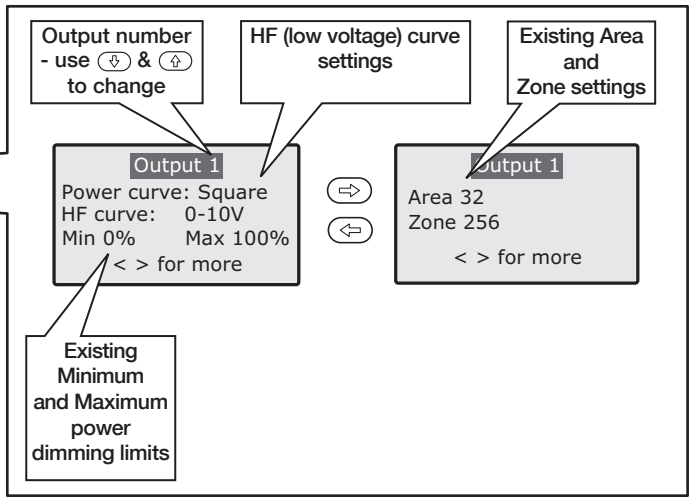
Step 6: Configure Output behaviors

Objective: To configure each Output to properly control the connected load type.

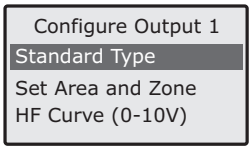
To configure the behavior of an Output

1. From the Configuration menu, highlight the 'Configure Outputs' option and press the (ENT) button. The display will show a summary of the settings for the first output:

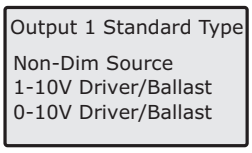




2. Use the ⇩ or ⇧ buttons to navigate the Outputs.
3. Press the (ENT) button to edit details for the current Output number:



4. Highlight the 'Standard Type' option and press the (ENT) button. The list of standard lighting loads will be displayed:



Load Type	Power Curve	HF Curve	Min	Max	Operation at Min
Non-dim source	Switched	Switched	0	100	Off
0-10V driver/ballast	Switched	0-10V	0	100	Off
1-10V driver/ballast	Switched	1-10V	0	100	Off

5. Highlight the type that most closely matches the load connected to the Output and press the (ENT) button.

   Once selected, all basic parameters will be set for the load (as summarized right) and you will be returned to the 'Configure Output x' menu. Other options can be changed here, however, for most standard installations no further changes are required. See the next two pages for details about all of the available options in the Configure Output menu.

   Note: *The 'Set Area and Zone' option allows you to assign the chosen Output to a particular Area and Zone - these operations can also be performed later using the iCANsoft application.*

6. Press the (ESC) button to return to the summary of settings for the Output. From here, either:
   - Select another Output number using the ⇩ or ⇧ buttons, or
   - Press the (ESC) button to return to the Configuration menu.

When all Outputs are configured, go to Step 7

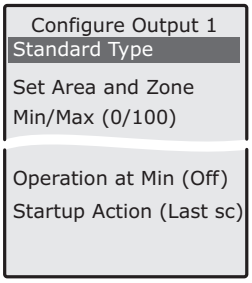
COOPER Controls

Options when configuring Output behaviors

There are various options available to configure the behaviors of each Output to suit their connected loads. These pages summarize all of the options.

Standard Type

Use this option to quickly configure all of the default settings for a particular type of load connected to an Output. The various default settings are summarized below:



Once the standard type settings are in place for the Output, you can then optionally visit the other options separately to adjust the configuration if required.

Set Zone/Area

This option allows you to assign the Output to a Zone and Area number, without the need to use the iCAN-soft application. The Zone number will be used to identify the Output across the iCANnet network.

HF Curve

This option defines the relationship of the low voltage (0-10V) Output to the dimmer level. The ranges that can be selected are: 1-10V, 0-10V, 10-1V, 10-0V. This option will only be displayed if an HF card accessory is purchased.

Min/Max

Allows you to define the minimum and/or maximum dimming levels. Both settings are expressed as percentages of the total standard dimming range. When the range of an Output is configured in this way, its reduced dimming range will be scaled to fit within the normal 0 to 100% dimming instructions received from wallstations and other controllers. This option is only applicable to the loads connected to the optional HF card accessory.

Operation at Min

For a 0-10V load connected to the optional HF card accessory. This option determines what the Output should do when the chosen Minimum level is reached.

When this option is set to 'Turn Off', the Output will switch off when the corresponding minimum level is reached.

When this option is set to 'Stay at Min', the Output will remain at the corresponding minimum level.

Startup Action

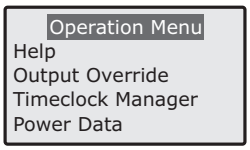
This option determines how the selected Output should recover from a power failure once the supply is restored. There are three settings available:

- **Restore Last Scene** reinstates the scene that was being displayed when the power outage occurred.
- **Use Emergency Scene** will display the scene that is defined within the 'Configuration' > 'Emergency Scene Edit' option.
- **Select Scene** allows you to assign any standard scene numbered up to 128. When you select this setting, a sub page will request the scene number.

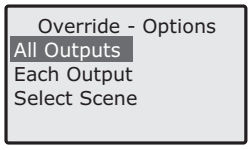
Step 7: Verify proper control of each Output using the Output Override option

Objective: To prove that each Output can be controlled by dimming commands.

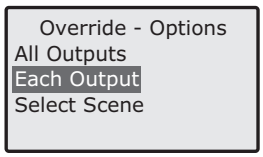
To use the Output Override option



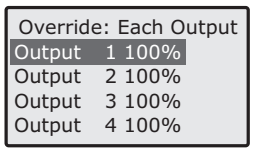
1. From the Operation menu, highlight the 'Output Override' option and press the ENT button. The display will show the available options:



2. Use the ⇩ or ⇧ buttons to highlight the 'Each Output' option and press the ENT button.



3. Use the ⇩ or ⇧ buttons to highlight each Output sequentially and then, either:



   - Use the ⇦ or ⇨ buttons to decrease or increase the dimming level, or for non-dim loads, switch the load on & off, or
   - Use the numeric keypad to enter a level from 0 to 100% and then press the ENT button to set the Output to the selected level.

4. Check that the load responds as expected and then return the level to zero or off using either of the above two methods.
5. Repeat Steps 3 & 4 for each Output. If the loads do not respond correctly, verify the output programming from Step 6 on Page 20.

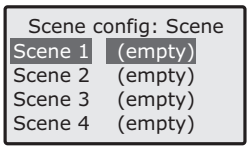
COOPER Controls

Step 8: Configure Scene Values

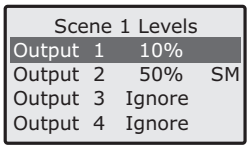
Objective: Configure the Scene value for each Output.

To set local Scene Value

1. From the Configuration menu, highlight the 'Scene Edit' option and press the (ENT) button. The display will show a list of Scene numbers ranging from 1 to 128:



2. Use the (⇩) or (⇧) buttons to highlight the required Scene number and press the (ENT) button. The display will show a list of the Outputs contained within the SCRP Switched Relay Controller and their levels within the scene.
3. Use the (⇩) or (⇧) buttons to highlight the required Output number and then change its value in any of the following ways:

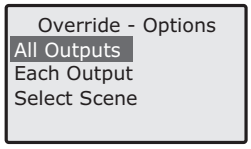


   - Press the (⇦) or (⇨) buttons to decrease or increase the dimming level, or to change from on to off for a non-dim source.
   - Use the numeric keypad to directly enter the required level, from 0 to 100% and press the (ENT) button to set the Output to the selected level.
   - Press the (*) button to change between the level, the level with an 'SM' (Scene Modify) suffix and the 'Ignore' option.

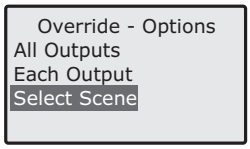
     During normal operation, Scene Modify commands may be issued by a controller on the iCANnet network or from the 'Events' section within the SCRP Switched Relay Controller. Any Outputs that are marked with 'SM' in the Scene will be adjusted (in proportion) by a stated amount from their normal Scene levels. Outputs without the 'SM' suffix will remain unaffected by any Scene Modify commands. Outputs configured to 'Ignore' a Scene selection will remain uncharged at their previous state whenever this Scene is selected.
4. Repeat step 3. for all other Outputs, as necessary.
5. To save all changes press the (ENT) button. To exit and return to the previous screen, press the (ESC) button.

To select a Scene

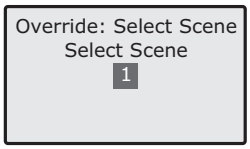
1. From the Operation menu, highlight the 'Output Override' option and press the (ENT) button. The display will show the available options:



2. Use the (⇩) or (⇧) buttons to highlight the 'Select Scene' option and press the (ENT) button.



3. Choose the required Scene number in either of two ways:



   - Press the (⇦) or (⇨) buttons to decrease or increase the required Scene number.
   - Use the numeric keypad to directly enter the required Scene number and press the (ENT) button to select the scene.
4. To exit, press the (ESC) button to return to the previous screen.

COOPER Controls

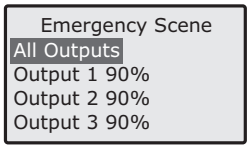
Step 9: Edit the Emergency Scene

Objective: To configure the desired Output levels for the Emergency Scene.

The Emergency Scene is pre-configured to set all Output levels to 100% or on. If you do not need to edit the Emergency Scene as part of your commissioning process, then go straight to Step 10.

To edit the Emergency Scene

1. From the Configuration menu, highlight the 'Emergency Scene Edit' option and press the (ENT) button. The display will show a list of the configured Output settings:



2. You can alter Output levels collectively or individually, as required:

   Collectively - Highlight the 'All Outputs' option and either type the required level using the keypad or use the (⇦) or (⇨) buttons to adjust the current value for all Outputs and press the (ENT) button.

   Individually - Highlight the required Output and either type the required level using the keypad or use the (⇦) or (⇨) buttons to adjust the current value and press the (ENT) button to set the Output value.

3. To exit, press the (ESC) button to save all changes and return to the previous screen.

What is the Emergency Scene?

The Emergency Scene is a group of settings for one or more Outputs that will only be used in cases of emergency, generally to provide evacuation lighting.

The Emergency Scene can be invoked in any of four ways:

- When a Contact Closure Input places the SCRP Switched Relay Controller into the Emergency State (a condition where most CAN messages are ignored and the Emergency Scene is displayed until such time that the Emergency State is cancelled).
- During the restoration of the supply following a power outage (dependant on the setting within the Configure Outputs Startup Action option - see page 22).
- By using the 'Operation' > 'Output Override' > 'Select Scene' option and selecting Scene 132.
- On receipt of an iCANnet Emergency message.

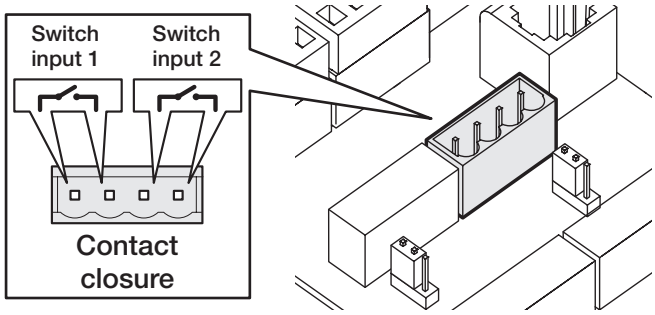
COOPER Controls

Step 10: Connect and Configure Contact Inputs

Objective: To connect and configure the volt-free inputs that allow event triggers from devices and other building systems to invoke appropriate reactions from the SCRP Switched Relay Controller.

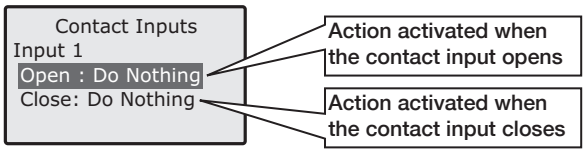
To connect contact inputs

1. Access the control board located at the top of the SCRP cabinet.
2. Connect the input wires from the external system to either switch input 1 or switch input 2 of the Contact Closure connector.

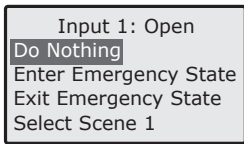


To configure contact inputs

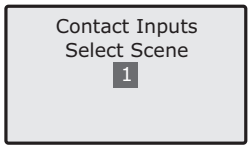
1. From the Configuration menu, highlight the 'Contact Inputs' option and press the (ENT) button. The display will show the current settings for the first input:


Contact Inputs
Input 1
Open : Do Nothing
Close: Do Nothing
Action activated when the contact input opens
Action activated when the contact input closes

2. Use the (⇩) or (⇧) buttons to highlight the required contact input condition ('Open' or 'Close') and press the (ENT) button. The display will show the actions that are available for the chosen contact input condition:



- **Do Nothing** The SCRP Switched Relay Controller will ignore the input state.
- **Enter Emergency State** When the contact input condition becomes true, the SCRP Switched Relay Controller will enter the special Emergency State. While in this state, the levels configured for the Emergency Scene will be used and the unit will not respond to most iCAN messages until the Emergency State is cancelled. The Emergency State can be cancelled either upon receipt of a special iCAN message or by using the 'Exit Emergency State' on the opposing contact input condition.
- **Exit Emergency State** When the contact input condition becomes true, the Emergency State will be cancelled, all iCAN messages will be accepted and normal operation will resume with the scene last displayed before the Emergency State.
- **Select Scene xxx** When the contact input condition becomes true, the outputs of the SCRP Switched Relay Controller will change to those defined within the selected scene number. When this setting is chosen and you press the (ENT) button, a second screen will prompt you to enter a scene number:



Enter the appropriate scene number and press the (ENT) button.

3. Repeat step 2. for the alternate condition within the same contact input. For instance, if the 'Close' contact input condition is set to 'Enter Emergency State', then the corresponding 'Open' condition should be set to 'Exit Emergency State' in order to return the SCRP Switched Relay Controller back to normal operation.
4. If necessary, configure the other contact input by using either the (⇩) button to scroll down to 'Input 2' or the (⇧) button to scroll up to 'Input 1'.

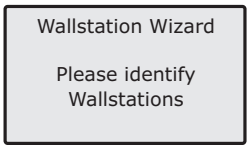
Note: *The external system should just provide a volt free contact between the two input terminals when it is active; it should not introduce any external voltage onto either wire.*

Step 11: Configure wallstations using the Wallstation Wizard

Objective: Use the Wallstation Wizard to quickly locate wallstations and program them directly from the SCRP control panel. If you do not need to configure wallstations as part of your commissioning process, then go straight to Step 12.

To use the Wallstation Wizard

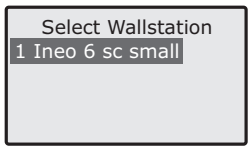
1. From the Configuration menu, highlight the 'Wallstation Wizard' option and press the (ENT) button. The display will request you to identify:



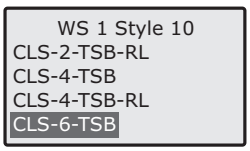
2. Go to each wallstation and prompt each one in turn to send out an 'announcement' message over the iCANnet network. The Wallstation Wizard will listen for announcements and will add any response to its list of devices.

   Note: *The various models of wallstations each have their own method to cause an announcement message. Please see Appendix 1 of this guide for more information.*

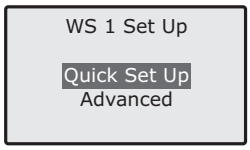
   When the first announcement message is received, the Wallstation Wizard will list the device:



3. Press the (ENT) button to select the highlighted device. The screen will now show the expected style for the wallstation. This relates to the button layout, of which there can be many for each type of wallstation. You may need to check the details of the wallstation to discover its exact style options.
   - If the button layout style is correct, press the (ENT) button to choose the highlighted 'OK' option - go to step 4.
   - If the button layout style does not match the wallstation, move the highlight to the 'Change' option and press the (ENT) button. Each wallstation contains a style number. Select the style that matches the style number printed on the wallstation. The available styles will be listed:



   Move the highlight to the desired style and press the (ENT) button to select. The Select Template screen will be displayed - go to step 5.



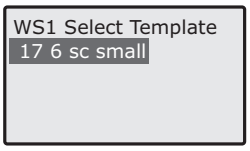
4. The screen will now allow you to choose between the 'Quick Set Up' or 'Advanced' methods:
   - Quick Set Up creates standard settings for the whole wallstation based upon just three details that you provide.
   - Advanced allows you to program each button individually.

   Highlight the required mode and press the (ENT) button.

5. Use the chosen mode to program the wallstation:

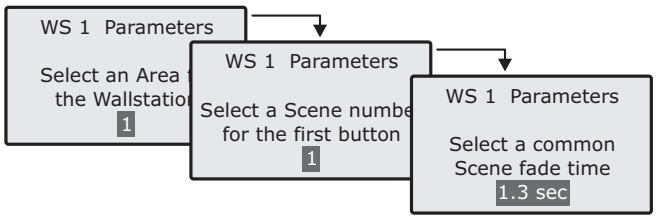
Quick Set Up

a. In Quick Set Up, your first action is to choose the programming template to be used:



In many cases there may just be one template, however, some wallstations may provide a choice. If so, highlight the appropriate template and press the (ENT) button.

b. You will be asked for three parameters: An Area number, an initial Scene number and a common fade time:



Use the keypad to enter the first two items, and the (⇦) and (⇨) buttons to adjust the fade time. The buttons will all be programmed with the same Area and Fade details and increment Scene numbers from your initial Scene parameter.

Advanced

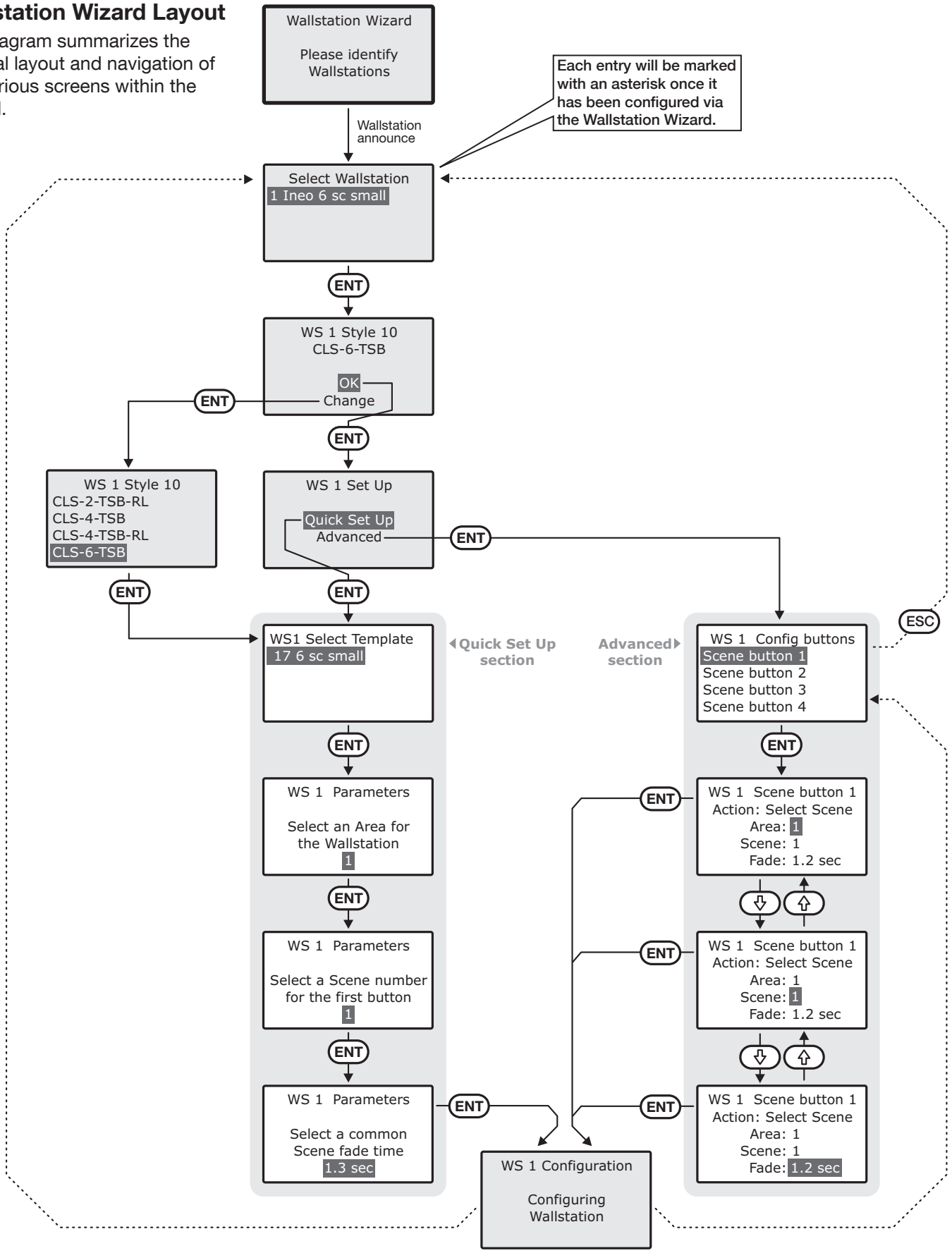
a. The initial advanced screen will show all of the buttons. Highlight a button and press the (ENT) button.

b. You can now adjust the Area, Scene and Fade details for the chosen button. Use either the keypad (not for fade) or the (⇦) and (⇨) buttons to adjust each entry and then press the (ENT) button to send your changes to the wallstation and return to the main advanced screen.

c. When you have finished programming the buttons, press the (ESC) button to return to the 'Select Wallstation' screen.

Wallstation Wizard Layout

The diagram summarizes the general layout and navigation of the various screens within the wizard.



COOPER Controls

Step 12: Verify each Wallstation

Objective: To confirm the configuration of each wallstation.

To verify a wallstation

1. Go to the wallstation and, in turn, press the buttons that are known to have been programmed to select Scenes.
2. Check that the response of the controlled lighting circuits to each button press match what is expected.
3. Repeat steps 1. to 3. for each wallstation.

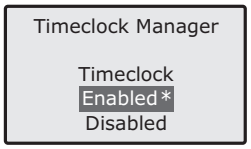
Step 13: Enable the Timeclock

Objective: Enable the timeclock on one SCRP Switched Relay Controller.

Note: *We recommend using only one SCRP Switched Relay Controller Timeclock to control all of the devices on a Segment.*

To enable the timeclock

1. From the Operation menu, highlight the 'Timeclock Manager' option and press the ENT button.
2. Use the ⇩ or ⇧ buttons to highlight the 'Enable/Disable' option and press the ENT button. The display will show the timeclock options with the currently active setting marked with an asterisk:



3. Use the ⇩ or ⇧ buttons to highlight the desired setting and press the ENT button. The chosen setting will be saved and the display will return to the Timeclock Manager menu.

   To exit without saving any changes, press the ESC button.

   Note: *When the timeclock feature is enabled, the 🕒 will illuminate in red.*

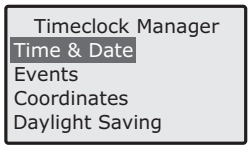
COOPER Controls

Step 14: Configure the Time, Date, Coordinates and Daylight Saving Time

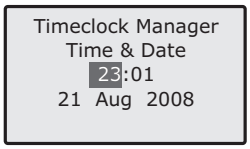
Objective: To ensure that the SCRP Switched Relay Controller has the correct time and location related settings.

To set the time and date

1. From the Operation menu, highlight the 'Timeclock Manager' option and press the (ENT) button. The display will show the available options:



2. Highlight the 'Time & Date' option and press the (ENT) button. The display will show the current time and date:



3. Use the (⇩) or (⇧) buttons to move the highlight between the items: hour, minute, day, month or year.

   Use the (⇦) or (⇨) buttons to change the highlighted item, as required.

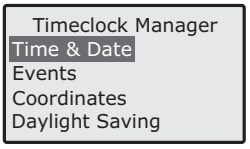
4. When all items have been updated, press the (ENT) button to save and exit.

   To exit without saving your changes, press the (ESC) button.

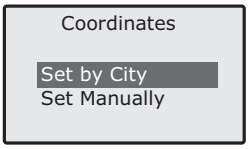
To set the location and time zone

Note: *Location and time zone information can also be edited from within the iCANsoft application.*

1. From the Operation menu, highlight the 'Timeclock Manager' option and press the (ENT) button. The display will show the available options:



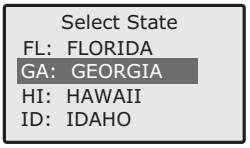
2. Use the (⇩) or (⇧) buttons to highlight the 'Coordinates' option and press the (ENT) button. The display will give you the options to 'Set by City' or 'Set Manually'.



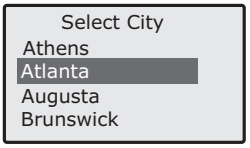
<u>To 'Set by City'</u>

1. Use the (⇩) or (⇧) buttons to highlight the "Set by City' option and press the (ENT) button. The display will show you the available options:

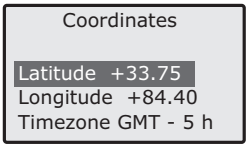
2. Highlight your Country of choice and press the (ENT) button. The display will show the available States.



3. Use the (⇩) or (⇧) buttons to highlight the closest city press the (ENT) button.



   The Latitude, Logitude, and Time Zone coordinates will automatically update based on your city selection and will show on the display for approximately 3 seconds.

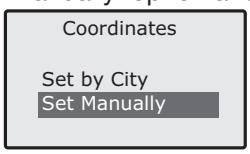


COOPER Controls

Step 14 (continued)

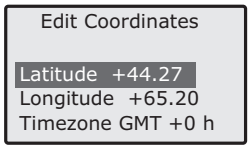
To 'Set Manually'

1. Use the ⇩ or ⇧ buttons to highlight the "Set Manually' option and press the ENT button..



The display will display the 'Edit Coordinates' screen.

2. Use the ⇩ or ⇧ buttons to move the highlight between the items: Latitude, Longitude and Time zone.



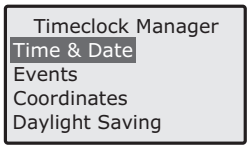
3. Press the ENT button to enter the edit screen for the highlighted item:
   - Use the ⇩ or ⇧ buttons to increment/decrement the current value.
   - Use the numeric keypad to directly enter the new value.
   - Press the ENT button to save and exit.
   - Press the ESC button to exit without saving.
4. Repeat steps 2. and 3. for each entry and when all items have been updated, press the ENT button to save and exit.

   To exit without saving your changes, press the ESC button.

To set daylight saving

The daylight saving time setting allows the SCRP Switched Relay Controller to automatically adjust itself for the annual one hour time shift every spring and fall.

1. From the Operation menu, highlight the 'Timeclock Manager' option and press the ENT button. The display will show the available options:



2. Use the ⇩ or ⇧ buttons to highlight the 'Daylight Saving' option and press the ENT button. The display will show the current daylight saving time settings:

3. Press the ENT button to begin editing, whereupon the highlight will appear on the 'Start' entry.

Note: *The 'DST Rules' option has the following settings: 'Manual', 'Disabled', 'EEC', 'Europe' and 'USA'. Changes to the 'Start' and 'End' date options will only be accepted if 'DST Rules' is set to 'Manual'.*

To prevent any automatic time shifting from occurring, change the 'DST Rules' option to 'Disabled'.

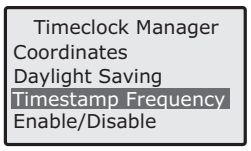
- Use the ⇩ or ⇧ buttons to move the highlight between the items.
- Use the ⇦ or ⇨ buttons to increment/decrement the current value.
- Press the ENT button to save and cease editing.
- Press the ESC button to cease editing without saving.

4. Repeat step 3. for each entry and when all items have been updated, press the ENT button a second time to exit from the screen.

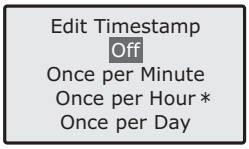
To set the timestamp frequency

The Timestamp Frequency determines how often a time synchronization message should be sent across the iCAN network in order to update any other units.

1. From the Operation menu, highlight the 'Timeclock Manager' option and press the ENT button. The display will show the available options:
2. Use the ⇩ or ⇧ buttons to highlight the



'Timestamp Frequency' option and press the ENT button. The display will show the full range of timestamp frequency options with the currently active setting marked with an asterisk:



3. Use the ⇩ or ⇧ buttons to highlight the required setting and press the ENT button. The chosen setting will be saved and the display will return to the Timeclock Manager menu.

   To exit without saving any changes, press the ESC button.

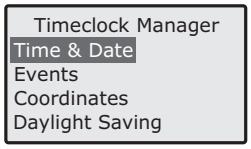
COOPER Controls

Step 15: Configure Timeclock Events

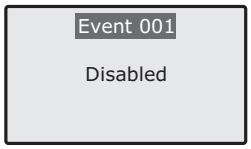
Objective: To configure automated events based either upon fixed times or variable occurrences such as dawn and dusk relative to the global location of the installation.

To view, create and edit timeclock events

1. From the Operation menu, highlight the 'Timeclock Manager' option and press the (ENT) button. The display will show the available options:

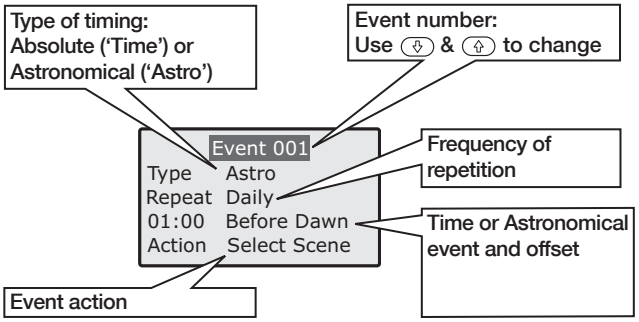


2. Use the (⇩) or (⇧) buttons to highlight the 'Events' option and press the (ENT) button. The display will show the status of Event 001. If the first event is disabled, you will see:



To activate it, press the (ENT) button twice and change the Event Type setting from 'Disabled' to either 'Time' or 'Astro'.

If the first event is not disabled, you will see a summary of its settings:



3. Use the (⇩) or (⇧) buttons to change the event number - between 001 and 255. As each event number is selected, the display will either show a summary screen of the existing settings or will show 'Disabled'.

4. Press the (ENT) button to begin editing the required event number. The highlight will move to the first option within the summary screen. You can now:
   - Use the (⇩) or (⇧) buttons to move the highlight between the options.
   - Press the (ENT) button to change the setting of the currently highlighted option:
     - ◊ Within an option, use the (⇩) or (⇧) buttons to move the highlight to the required setting and then press the (ENT) button to select it.
     - ◊ Alternatively, press the (ESC) button to exit from the list of settings without changing the setting.
     - ◊ Where the option is numerical, i.e. the time setting, use the (⇦) or (⇨) buttons to change each value, the (⇩) or (⇧) buttons to move the highlight and the (ENT) button to save your changes and return to the summary screen.

   A listing of all options available within this section is shown on the next page.

Step 15 (continued)

Event options

Type

This option determines whether the event should be based on an absolute time ('Time') or a variable occurrence ('Astro') such as dawn or dusk. A 'Disabled' setting allows you to make the current event inactive.

Repeat

Exact Time - Begins the selected action only at a specified time, day, month and year.

Daily - Begins the selected action at the specified time every day.

Specific Days - Begins the selected action at the specified time on every day that is chosen within this option. When you first choose this option, the screen will show: 'No days selected'. Press the numeric buttons between 1 and 7 (button 1 = Sunday, 2= Monday, etc.) to include or exclude the days when the event should occur.

Annually - Begins the selected action once a year at the specified time and date.

Time (and date) setting

The time (and date, where appropriate) setting has different effects depending on the setting of the 'Type' option:

- If 'Type' is set to 'Time' then this setting provides an absolute start time for the chosen action.
- If 'Type' is set to 'Astro' then this setting provides an offset period for the chosen action, from the astronomical event. For example, if the 'Before Dusk' option is set and the time setting shows 02:00, then the event will be started two hours before dusk.

Astronomical setting

These options appear only when the 'Type' option is set to 'Astro'. This setting will appear in the summary screen, immediately after the time setting. The system uses the location coordinates as well as the time and date to calculate when each astronomical event should occur.

Absolute Time - Changes the 'Type' option from 'Astro' back to 'Time'.

Before Dawn - Begins the selected action at a period (defined by the time setting) before dawn.

After Dawn - Begins the selected action at a period (defined by the time setting) after dawn.

Before Dusk - Begins the selected action at a period (defined by the time setting) before dusk.

After Dusk - Begins the selected action at a period (defined by the time setting) after dusk.

Action

The list of actions are collected into two groups: 'Basic' and 'Advanced' (there are links from one group to the other within the list). In all cases, the chosen action occurs when the corresponding event's time conditions are met.

Basic

No Action - Effectively disables the event.

Select Scene - Displays a Scene (within a particular Area) over a selected fade time.

Zone Level - Applies a final level to a single Zone (within a particular Area) over a selected Fade time.

Advanced

Zone Increment - Increases the dimming level of a single Zone (within a particular Area) by a chosen percentage over a selected Fade time.

Zone Decrement - Decreases the dimming level of a single Zone (within a particular Area) by a chosen percentage over a selected Fade time.

Scene Modify - Selectively alters the dimming level of any currently displayed Scene within a particular Area over a set fade time. Within each Scene, only those Outputs that have been previously marked as 'Scene Modify' (in iCANsoft) or 'SM' (in the SCRP Switched Relay Controller menu) will be altered. All Outputs that have not been marked will remain unaffected by this action. See Step 8 for details about applying the 'SM' mark.

Zone Toggle - Changes between the current level of a single zone (within a particular Area) and the level entered in this option over a selected Fade time.

Start Sequence - Sets a pre-programmed sequence (created using the iCANsoft application) running, beginning at any chosen step from 1 to 30.

Stop Sequence - Stops a pre-programmed sequence at any chosen step from 1 to 30.

Pause Sequence - Pauses a pre-programmed sequence.

Send CAN message - Transmits a CAN message that has been pre-programmed using iCANsoft.

Enable Event - Allows another event to become active when the parameters of this event become true. This is useful for confining repetitive event actions to occur only within a set period of time.

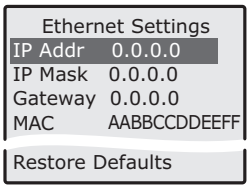
Disable Event - Changes an active event to its disabled state when the parameters of this event become true.

Step 16: Configure Ethernet

Objective: Configure Ethernet

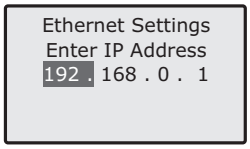
To configure Ethernet settings

1. From the Configuration menu, highlight the 'Ethernet Settings' option and press the (ENT) button. The current settings will be displayed:



2. Use the (⇩) or (⇧) buttons to highlight the required setting and press the (ENT) button.

   The **IP Address**, **IP Mask** and **Gateway** settings are all edited in a similar manner:

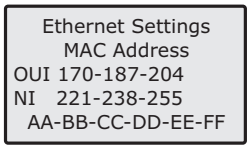


   Use the (⇩) or (⇧) buttons to move the highlight between the four octet values.

   Use the numeric keypad to change the highlighted value.

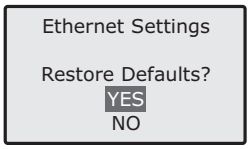
   Press the (ENT) button to save the address and return to the previous menu.

   The **MAC** (Media Access Control) setting cannot be edited and is shown for information purposes only:



   Press the (ENT) or the (ESC) buttons to exit back to the previous menu.

   Use the Restore Defaults option to clear previous address settings.



   Highlight the 'YES' option and press the (ENT) button to restore default values and return to the previous menu.

3. Press the (ESC) button to exit to the Configuration menu.

See next page for DMX related options

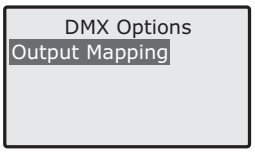
Step 17: Configure DMX

Objective: Configure DMX to allow DMX consoles to control the SCRP Switched Relay Controller Outputs.

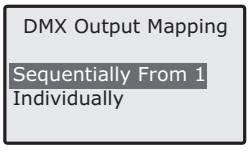
To map Outputs to DMX channels

DMX Output Mapping allows you assign the SCRP Outputs to any DMX control channels between 1 and 512. This can either be done sequentially from a particular DMX channel or you can assign each Output individually.

1. From the Configuration menu, highlight the 'DMX Options' entry and press the (ENT) button. The following options will be displayed:

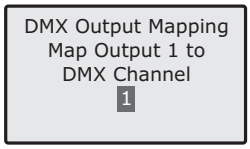


2. Ensure that the 'Output Mapping' option is highlighted and press the (ENT) button. The display will show two options:



Sequential mapping

a. Highlight that the 'Sequentially From...' option is highlighted and press the (ENT) button.

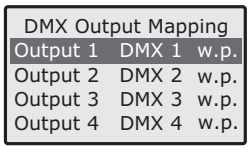


b. Enter the DMX channel number (1 - 512) to which Output 1 should be assigned and press the (ENT) button.

All Outputs within the SCRP will be assigned to DMX channels in succession from your initial number and then you will be returned to the DMX Output Mapping menu.

Individual mapping

a. Highlight the 'Individually' option and press the (ENT) button.

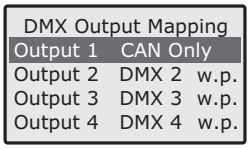


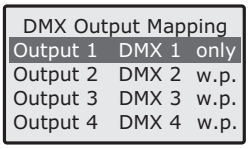
Note: The default for each Output is set to "w.p."- 'DMX When Present'. This means that DMX controls the output when present, otherwise CAN does.

b. To change from the default of 'DMX when Present', press the (*) button to to toggle thru the control hierarchy options:

1. 'CAN Only', which means DMX does not affect the output.

2. 'DMX only', which means that CAN does not affect the output. (see below)





c. Press the (ENT) button to save and exit.

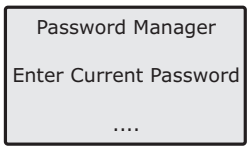
d. Use the (⇩) or (⇧) buttons to highlight the Output number and repeat step b. for each Output and then press the (ENT) button to save and exit.

Step 18: Configure passwords

Objective: To configure passwords for the Operation and Configuration sections of the menu to prevent unauthorized access.

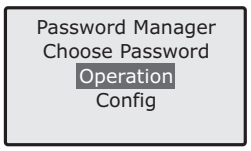
To configure passwords

1. From the Configuration menu, highlight the 'Password Manager' option and press the (ENT) button. You will be asked to enter the current (Configuration) password:

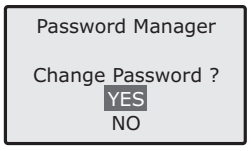


2. Enter the current four-digit Configuration password and press the (ENT) button. If no password is set, just press the (ENT) button.

   You will now be asked to choose which password you wish to change:



3. Use the (⇩) or (⇧) buttons to highlight either the 'Operation' or 'Config' option and press the (ENT) button.
4. Enter the new four-digit password and press the (ENT) button or press the (*) button to clear the current password.
5. Re-enter the new four-digit password and press the (ENT) button.



   You will now be asked to confirm the change:

6. Ensure that the 'YES' option is highlighted and press the (ENT) button.

Commissioning complete

If you have followed and completed all relevant steps within this guide then the installation should be commissioned.

CONGRATULATIONS! Your SCRP Switched Relay Controller is now fully commissioned and ready for use.

COOPER Controls

Other Useful Features

During normal operation, or when commissioning, there are a number of other useful features available within the menu system.

Other useful features

- Overriding Outputs page 38

  Allows you to override any Output individually, or all Outputs collectively, from their current dimmed or switched levels. This option also allows you to select any of the currently stored Scenes (including the Emergency Scene - number. 132).

- Viewing power data page 38

  A useful feature for checking power distribution across the SCRP Switched Relay Controller. Using this option you can view real time power consumption figures, arranged either by phase or by individual Outputs.

- Choosing communications page 39

  Allows you to enable/disable any of the control communication methods used by the SCRP Switched Relay Controller..

- Restore default settings page 39

  Allows you to quickly clear all configuration settings from the SCRP Switched Relay Controller and return it to its standard factory condition.

- Adjusting the date and time page 30

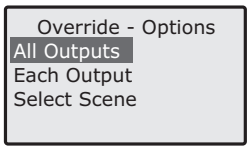
  The SCRP Switched Relay Controller has an integral battery backup for its timeclock functions so adjustment is not normally required, even after a power outage. However, when adjustment is required, the Timeclock Manager contains all time related features.

Overriding Outputs

On occasions it may be necessary to override the levels of one or more Outputs. This option provides the ability to affect Outputs individually or all of them collectively. You may also select any of the first 128 standard Scenes or even the Emergency Scene (Scene 132).

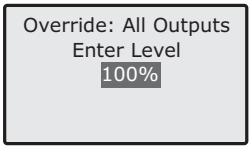
To override Outputs

1. From the Operation menu, highlight the 'Output Override' option and press the ENT button. The display will show the available options:



2. Use the ⇩ or ⇧ buttons to highlight the required option and press the ENT button to select:

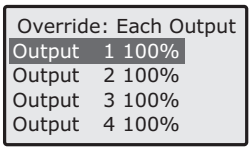
- **All Outputs**



Use ⇦ and ⇨, or the keypad (and ENT) to select the level (0 to 100%).

Press the ESC button to exit.

- **Each Output**



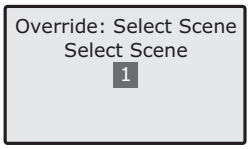
Use ⇩ and ⇧ to highlight the required Output.

Use ⇦ and ⇨, or the keypad (and ENT) to select the dimming level (0 to 100%) or to switch on to off.

Press the ESC button to exit.

To Flash the selected Ouput- press the * button. Press the * button a second time to stop the channel from flashing.

- **Select Scene**



Use ⇦ and ⇨, or the keypad (and ENT) to select the required Scene.

Press the ESC button to exit.

Note: *If there are no settings within a selected Scene, the display will show 'Scene Empty'.*

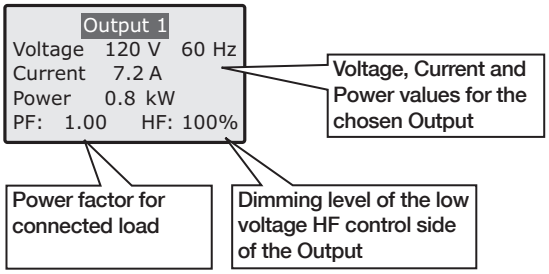
3. Press the ESC button to return to the Operation menu.

Viewing Power Data

The Power Data section provides useful feedback and confirmation of the total power demanded within the SCRP Switched Relay Controller, listed as a total for the whole unit, as totals by phase or values for individual Outputs.

To view power data from the menu

1. Use the ⇩ or ⇧ buttons to highlight the 'Display by Output' option and press the ENT button to select:


Output 1
Voltage 120 V 60 Hz
Current 7.2 A
Power 0.8 kW
PF: 1.00 HF: 100%
Voltage, Current and Power values for the chosen Output
Power factor for connected load
Dimming level of the low voltage HF control side of the Output

2. Use ⇩ and ⇧ to view the required Output number.
3. When finished, press the ESC button to exit to the previous level and then press the ESC button to return to the Operation menu.

COOPER Controls

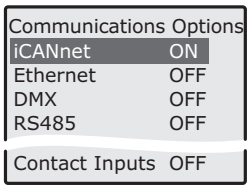
Choose Communications

This option allows you to enable/disable any of the control communication methods used by the SCRP Switched Relay Controller. This may be useful, for instance, when temporary control methods are introduced and standard ones need to be suspended.

This feature can also be useful when diagnosing control problems on SCRP Switched Relay Controller with multiple control inputs. The ability to quickly disable any input can help to isolate the problem.

To choose communications

1. From the Operation menu, highlight the 'Communications' option and press the ENT button. The display will show the current status of each control input:



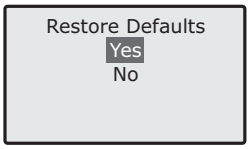
2. Use the ⇩ or ⇧ buttons to highlight the required option and then use the ⇦ or ⇨ buttons to change the highlighted option between 'ON' and 'OFF'.
3. Press the ESC button to return to the Operation menu.

Restore Default Settings

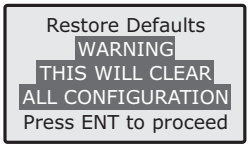
The Restore Defaults option allows you to quickly clear all configuration settings from the SCRP Switched Relay Controller and return it to its standard factory condition.

To restore default settings

1. From the Configuration menu, highlight the 'Restore Defaults' entry and press the ENT button. The following options will be displayed:



2. Ensure that the 'Yes' option is highlighted and press the ENT button. The display will show the following warning:



3. If you are sure that you wish to proceed, press the ENT button to clear all settings and return to the Configuration menu.

Appendix 1

Placing Wallstations into Announce Mode

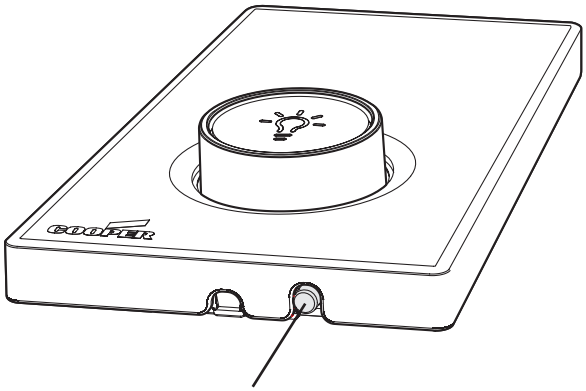
To assist with identification within complex lighting systems, some iLumin wallstations have an ‘Announce Mode’ where they transmit their identity across the CAN network for a short period. The way in which ‘Announce Mode’ is invoked varies between products.

Ineo wallstation

Press and hold any button other than the raise/lower and ON/OFF button for five seconds.

Revio wallstation

Press and release the cleaner switch which is located on the underside of the wallstation. The unit will remain in announce mode for ten seconds and then return to normal operation.



Cleaner switch - press to temporarily invoke the announce mode

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